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Filled with over 225 boiler/HRSG operation and design problems, this book covers steam generators and related systems used in process plants, refineries, chemical plants, electrical utilities, and other industrial settings. Emphasizing the thermal engineering aspects, the author provides information on the design and performance of steam generators Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNP TSHOOT 300-135 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Routing and Switching TSHOOT 300-135 Official Cert Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNP Routing and Switching TSHOOT 300-115 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert instructor Raymond Lacoste shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete, official study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly A trouble ticket chapter that explores 10 additional network failures and the approaches you can take to resolve the issues presented A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, this official study guide helps you master the concepts and techniques that ensure your exam success. CCNP Routing and Switching TSHOOT 300-115 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com. The official study guide helps you master topics on the CCNP R&S TSHOOT 300-135 exam, including how to troubleshoot: Device performance VLANs, Trunks, and VTP STP and Layer 2 Etherchannel Inter-VLAN routing and Layer 3 Etherchannel Switch security HSRP, VRRP, GLBP IPv4 and IPv6 addressing IPv4/IPv6 routing and GRE tunnels RIPv2, RIPng, EIGRP, and OSPF Route maps, policy-based routing, and route redistribution BGP Management protocols, tools, and access

Jamming is glassy relaxation under constrained dynamics. This high level book is a collection of reprinted articles in the field from physicists, chemists and engineers working in the area.

Based on years of academic and industrial research by an international panel of experts, Chemical, Biological, and Functional Properties of Food Lipids, Second Edition provides a concise, yet well-documented presentation of the current state of knowledge on lipids. Under the editorial guidance of globally recognized food scientists Zdzis?aw E. Sikorski and Anna Ko?akowska, this completely revised and updated edition presents eight entirely new chapters. Originally titled Chemical and Functional Properties of Food Lipids, this edition adds Biological to the title to reflect a far greater emphasis on the biological aspects of lipids. Among a wealth of ongoing and current topics, this essential resource: Familiarizes readers with the standard chemical nomenclature and properties of a large variety of lipids Examines the contents of lipids in plants, fish, milk, meat, and eggs Describes advances in methods of physical, chemical, and biochemical analyses Offers new information on phospholipids, sterols, and fat-soluble vitamins in foods Provides a biochemist's view of lipid oxidation and antioxidants—crucial for the sensory and nutritive aspects of food quality Discusses modified lipids and fat mimetics, as well as those of special biological and physico-chemical activity Considers the importance of frying fats, lipid-proteins and lipid-saccharides interactions, and lipid contaminants in relation to food quality Chemical, Biological, and Functional Properties of Food Lipids, Second Edition is an ideal reference for both professional and aspiring food scientists in both industry and academia. It contains all of the necessary information needed to control the rate of undesirable reactions in foods and select optimum storage and processing parameters for these delicate fats.

The landscape of homological algebra has evolved over the last half-century into a fundamental tool for the working mathematician. This book provides a unified account of homological algebra as it exists today. The historical connection with topology, regular local rings, and semi-simple Lie algebras are also described. This book is suitable for second or third year graduate students. The first half of the book takes as its subject the canonical topics in homological algebra: derived functors, Tor and Ext, projective dimensions and spectral sequences. Homology of group and Lie algebras illustrate these topics. Intermingled are less canonical topics, such as the derived inverse limit functor lim1, local cohomology, Galois cohomology, and affine Lie algebras. The last part of the book covers less traditional topics that are a vital part of the modern homological toolkit: simplicial methods, Hochschild and cyclic homology, derived categories and total derived functors. By making these tools more accessible, the book helps to break down the technological barrier between experts and casual users of homological algebra.

IBM® Problem Determination (PD) Tools consists of a core group of IBM products that are designed to work with

compilers and run times to provide a start-to-finish development solution for the IT professional. This IBM Redbooks® publication provides you with an introduction to the tools, guidance for program preparation to use with them, an overview of their integration, and several scenarios for their use. If an abend occurs during testing, Fault Analyzer enables the programmer to quickly and easily pinpoint the abending location and optionally, the failing line of code. Many times, this information is all the programmer requires to correct the problem. However, it might be necessary to delve a little deeper into the code to figure out the problem. Debug Tool allows the programmer to step through the code at whatever level is required to determine where the error was introduced or encountered. After the code or data is corrected, the same process is followed again until no errors are encountered. However, volume testing or testing with multiple terminals is sometimes required to ensure real-world reliability. Workload Simulator can be used to perform this type of testing. After all of the tests are completed, running the application by using Application Performance Analyzer can ensure that no performance bottlenecks are encountered. It also provides a baseline to ensure that future enhancements do not introduce new performance degradation into the application. This publication is intended for z/OS® application developers and system programmers.

With a wealth of illustrations, examples, discussion questions, and case studies, the Food Packaging Science and Technology covers basic principles and technologies as well as advanced topics such as active, intelligent, and sustainable packaging with unparalleled depth and breadth of scope. Emphasizing the application of relevant scientific principles to create effective designs and quality products, an international team of contributors draws on their collective experience to equip you with the necessary knowledge and tools to tackle modern food packaging problems. Divided into four parts, this book begins with an extensive discussion of packaging materials science. Contributions review the basic concepts of chemical and physical properties as they relate to food packaging. They cover gas permeation and migration and give detailed information on the four basic types of packaging materials: plastics, glass, metal, and cellulosic. The second part applies the previous information to the field of packaging technologies. Traditional methods and concepts such as end-of-line operations, permeation and migration, canning and aseptic packaging, and vacuum/modified atmosphere packaging are juxtaposed with the more advanced technologies of microwaveable packaging, active packaging, and intelligent packaging. Part 3 discusses shelf life determination and elements of storage stability and packaging requirements of various food categories. The final part presents issues related to packaging sociology, addressing sustainable packaging, as well as sociological and legislative considerations.

This volume is a study of Chinese food from a cultural and historical perspective. Its focus is on traditional China before establishment of the People's Republic. It identifies and provides comprehensive information on a broad range of

Chinese food plants and animals for general readers, as well as for specialists whose interests have led them to questions relating to the food of China. Readers will find discussions regarding origins, how things came to be, time and place of food-plant and animal domestication, the spread of plants and animals from and to China, and other historical questions regarding the foods used by the Chinese people. The book is written with Canton and the southeast as points of departure, but embraces all of China and is directed towards people unfamiliar with China.

Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use

Cystic Fibrosis in the Light of New Research provides the latest research and clinical evidence that will be useful for clinicians, scientists and researchers to further their knowledge around this fascinating condition. The authors have brought along their expertise and wealth of knowledge to produce this book, including the basic science that underlies the disease, the burden of bacterial and viral infections, immunologic aspects of CF, a variety of clinical measurements to predict prognosis and novel therapies including gene therapy. This book will be invaluable and entertaining for anyone who is involved in the care of patients with cystic fibrosis.

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them.

Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

This open access book presents the roles and mechanisms of signal transduction triggered by nicotinic acetylcholine receptors (nAChRs) stimulation in neuroprotection against toxic effects of risk factors of neurodegenerative diseases. Accumulating evidence suggests that nAChRs in the CNS play important roles not only in excitatory neurotransmission but also in neuronal survival and related functions. Neuroprotection mediated by nAChRs in neurodegenerative diseases such as Alzheimer's disease is the major topic of this book. In response to rapidly evolving areas in clinical and laboratory neuropharmacology and neurochemistry, this volume provides in-depth coverage of neuroprotection in basic research and future developments in the clinical application of effective neuroprotective strategies in neurodegenerative diseases. This work appeals to both basic and clinical researchers in several fields, such as neuroscience, neurology, and pharmacology. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

The interaction of immune function and nutrition underlies the low-grade chronic inflammation involved in the etiology of many common obesity-associated and age-related chronic disease conditions. This close interaction is the genesis of the term immunonutrition, which represents a new interdisciplinary field of nutritional and medical research. Immunonutrition: Interactions of Diet, Genetics, and Inflammation introduces the breadth of this field, which implicates nutrition in both immune function and in the etiology, prevention, and treatment of common diseases influenced by inflammation and immune imbalance, including obesity, diabetes, heart disease, asthma, autoimmune diseases, and common forms of cancer. The book begins by reviewing the basic mechanisms of immunity and cellular mechanisms of cytokine activation. It discusses the effects of dietary fat intake and changes in Western diet and lifestyle linked to inflammation. It also describes the interaction of genetics and environment in the modulation of immune function and inflammation, and addresses exercise and skeletal muscle as an endocrine and immune organ. The book reviews the entire spectrum of inflammation and cancer from causation to its role in tumor therapy. It examines abdominal obesity and metabolic diseases, interactions between nutrition and autoimmunity in systemic lupus erythematosus and rheumatoid arthritis, and inflammation associated with type 2 diabetes, heart disease, kidney disease, Alzheimer's disease, and asthma. Considering potential nutrition-based treatments, the book explores approaches for reducing abdominal obesity, anti-inflammatory effects of phytochemicals, practical strategies for increasing fruit and vegetable intake, and anti-inflammatory properties of spice phytonutrients. In addition, it explores how uninformed food choices related to fats and oils create a balance of tissue-selective signals that produce harmful health outcomes and how to restore a healthy balance.

Silicon, as a single-crystal semiconductor, has sparked a revolution in the field of electronics and touched nearly every field of science and technology. Though available abundantly as silica and in various other forms in nature, silicon is difficult to separate from its chemical compounds because of its reactivity. As a solid, silicon is chemically inert and stable, but growing it as a single crystal creates many technological challenges. Crystal Growth and Evaluation of Silicon for VLSI and ULSI is one of the first books to cover the systematic growth

of silicon single crystals and the complete evaluation of silicon, from sand to useful wafers for device fabrication. Written for engineers and researchers working in semiconductor fabrication industries, this practical text: Describes different techniques used to grow silicon single crystals Explains how grown single-crystal ingots become a complete silicon wafer for integrated-circuit fabrication Reviews different methods to evaluate silicon wafers to determine suitability for device applications Analyzes silicon wafers in terms of resistivity and impurity concentration mapping Examines the effect of intentional and unintentional impurities Explores the defects found in regular silicon-crystal lattice Discusses silicon wafer preparation for VLSI and ULSI processing Crystal Growth and Evaluation of Silicon for VLSI and ULSI is an essential reference for different approaches to the selection of the basic silicon-containing compound, separation of silicon as metallurgical-grade pure silicon, subsequent purification, single-crystal growth, and defects and evaluation of the deviations within the grown crystals. Vols. for 1970-71 includes manufacturers' catalogs.

Valves are the components in a fluid flow or pressure system that regulate either the flow or the pressure of the fluid. They are used extensively in the process industries, especially petrochemical. Though there are only four basic types of valves, there is an enormous number of different kinds of valves within each category, each one used for a specific purpose. No other book on the market analyzes the use, construction, and selection of valves in such a comprehensive manner. Covers new environmentally-conscious equipment and practices, the most important hot-button issue in the petrochemical industry today Details new generations of valves for offshore projects, the oil industry's fastest-growing segment Includes numerous new products that have never before been written about in the mainstream literature

P.F. Strawson has supplied a new introduction for this reissue of his modern classic originally published in 1974. Subject and Predicate in Logic and Grammar explores two conceptions of subject and predicate, one of which lies at the core of standard logic and the other more closely relates to surface forms of natural language. Strawson renders these two conceptions, and their divergences, intelligible by relating them both to the 'basic case' in which the subject-term designates a substantial spatio-temporal individual. Through his treatment of these conceptions, Strawson added to our understanding of both logic and general grammar, helping us trace formal characteristics of logic and its grammar to their roots in general features of thought and experience, and observing how the grammatical structure of a large group of non-formalized languages naturally develops in various ways, along other lines. This book, based originally on seminar material used at Oxford and Princeton and a series of lectures delivered at Irvine and University College London, has become an enduring landmark in the literature of logic and the philosophy of language.

Collection of the monthly climatological reports of the United States by state or region with monthly and annual National summaries.

An expert guide to the new and emerging field of broadband circuitsfor optical fiber communication This exciting publication makes it easy for readers to enter intoand deepen their knowledge of the new and emerging field ofbroadband circuits for optical fiber communication. The author'sselection and organization of material have been developed, tested,and refined from his many industry courses and seminars. Five typesof broadband circuits are discussed in detail: * Transimpedance amplifiers * Limiting amplifiers * Automatic gain control (AGC) amplifiers * Lasers drivers * Modulator drivers Essential background on optical fiber, photodetectors, lasers,modulators, and receiver theory is presented to help readersunderstand the system environment in which these broadband circuitsoperate. For each circuit type, the main specifications and theirimpact on system performance are explained and illustrated withnumerical values. Next, the circuit concepts are discussed andillustrated with practical implementations. A broad range ofcircuits in MESFET, HFET, BJT, HBT, BiCMOS, and CMOS technologiesis covered. Emphasis is on circuits for digital, continuous-modetransmission in the 2.5 to 40 Gb/s range, typically used in

SONET,SDH, and Gigabit Ethernet applications. Burst-mode circuits forpassive optical networks (PON) and analog circuits for hybridfiber-coax (HFC) cable-TV applications also are discussed. Learning aids are provided throughout the text to help readersgrasp and apply difficult concepts and techniques, including: * Chapter summaries that highlight the key points * Problem-and-answer sections to help readers apply their newknowledge * Research directions that point to exciting new technologicalbreakthroughs on the horizon * Product examples that show the performance of actual broadbandcircuits * Appendices that cover eye diagrams, differential circuits, Sparameters, transistors, and technologies * A bibliography that leads readers to more complete and in-depthtreatment of specialized topics This is a superior learning tool for upper-level undergraduates andgraduate-level students in circuit design and optical fibercommunication. Unlike other texts that concentrate on analogcircuits in general or mostly on optics, this text providesbalanced coverage of electronic, optic, and system issues.Professionals in the fiber optic industry will find it an excellentreference, incorporating the latest technology and discoveries inthe industry.

Learn Intel 64 assembly language and architecture, become proficient in C, and understand how the programs are compiled and executed down to machine instructions, enabling you to write robust, high-performance code. Low-Level Programming explains Intel 64 architecture as the result of von Neumann architecture evolution. The book teaches the latest version of the C language (C11) and assembly language from scratch. It covers the entire path from source code to program execution, including generation of ELF object files, and static and dynamic linking. Code examples and exercises are included along with the best code practices. Optimization capabilities and limits of modern compilers are examined, enabling you to balance between program readability and performance. The use of various performance-gain techniques is demonstrated, such as SSE instructions and pre-fetching. Relevant Computer Science topics such as models of computation and formal grammars are addressed, and their practical value explained. What You'll Learn Low-Level Programming teaches programmers to: Freely write in assembly language Understand the programming model of Intel 64 Write maintainable and robust code in C11 Follow the compilation process and decipher assembly listings Debug errors in compiled assembly code Use appropriate models of computation to greatly reduce program complexity Write performance-critical code Comprehend the impact of a weak memory model in multi-threaded applications Who This Book Is For Intermediate to advanced programmers and programming students

This title was first published in 2001. This study indicates that researchers have far to go in understanding and assessing how development projects work. The author shows that, often, the perception of failure is not shared by those whom were intended to benefit. She uses a case study of Samoan villagers introduced to cattle farming to examine the wider development process and challenge the conventional theories. By drawing on people-centred perspectives that give much greater weight to the role of culture in development, the volume does not simply criticize development project management, but suggests practical and positive ways forward, encouraging spontaneous indigenous development which should be supported by projects where appropriate.

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Pipeline engineers, operators, and plant managers are responsible for the safety of pipelines, facilities, and staying on top of regulatory compliance and maintenance. However, they frequently need reference materials to support their decision, and many new pipeline engineers and plant managers are responsible for major repairs and decisions yet do not have the proper reference

to set a holistic integrity plan in place. Pipeline Integrity, 2nd Edition delivers necessary pipeline inspection methods, identification of hazard mechanisms, risk and consequence evaluations, and repair strategies. Covering relevant standards and processes for risk, assessment, and integrity management, this go-to reference provides the principles that guide these concepts enhanced with more critical regulatory information and easier organization betwen liquid and gas pipelines. More detailed information is provided on asset reliability, including risk-based inspection and other inspection prioritizing tools such as value-driven maintenance and evidence-based asset management. Pipeline Integrity, 2nd Edition continues to provide engineers and plants managers a vital resource for keeping their pipelines and facilities safe and efficient. Set an integrity management plan and safe assessment program while properly characterizing impact of risk Get updated with new information on corrosion control, gas and liquid hydrocarbon transportation risk management and asset integrity management Understand and apply all the latest and critical oil and gas pipeline standards, both U.S. and international-based

The scope of nanotechnology in medical applications has expanded fast in the last two decades. With their unprecedented material properties, nanoscale materials present with unorthodox opportunities in a wide range of domains, including drug delivery and medical imaging. This book assembles the various facets of nanomedicine while discussing key issues such as physicochemical properties that enhance the appeal of nanomedicine. The book is an excellent resource for physicians, PhDs, and postdocs involved in nanomedicine research to learn and understand the scope and complexity of the subject. It begins with a short history of nanotechnology, followed by a discussion on the fundamental concepts and extraordinary properties of nanoscale materials, and then slowly unfolds into multiple chapters illustrating the uses of various nanomaterials in drug delivery, sensing, and imaging.

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